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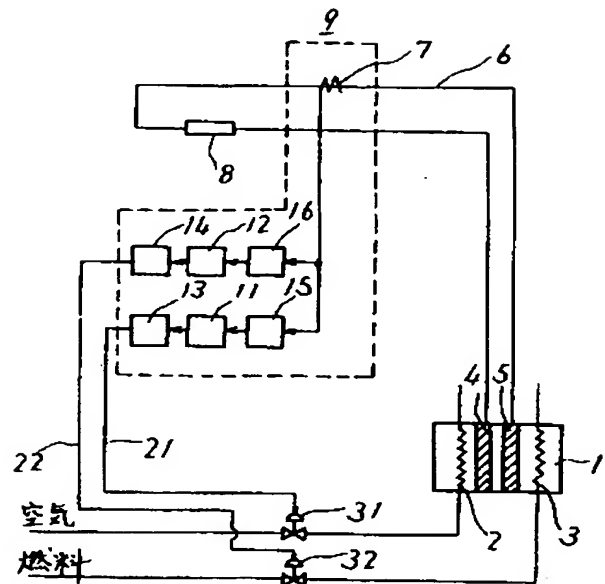
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TITLE : CONTROL DEVICE FOR FUEL CELL



ABSTRACT : **PURPOSE:** To control the gas flow rate of air and fuel electrodes while the differential pressure between the air and fuel electrodes is being suppressed by adding a time lag element to the detection signal of output current and particularly increasing the delayed time of the air electrode.

CONSTITUTION: A control device 9 has the time lag elements 15 and 16 inserted in the control circuit of air and fuel electrodes 4 and 5. When the electrical load of a fuel cell 1 is varied, the output of function generation elements 13 and 14 issues a degree of opening command to regulating valves 31 and 32 in the end. However, since the time lag elements 15 and 16 are contained behind a current detector 7, the signal at the air electrode 4 side is suppressed and output, as compared with the fuel electrode 5 side. As a result, the degree of opening command is also transiently suppressed and transmitted at the air electrode 4. While the flow rate variation is almost being equalized and the differential pressure is being kept within a preset value, the regulating valves have the degree of opening corresponding to the required flow rate variation.

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